

BIOMEDICAL ASSAY DEVICE**ABSTRACT**

5 The present invention provides an integrated structural unit that
includes a diagnostic form that includes at least one active ingredient that is
present in an amount that advantageously does not vary by more than about
five percent from a predetermined target amount. In one embodiment, the unit
form comprises a substrate, a deposit that is disposed on the substrate, and a
10 spreading layer that overlies the deposit and is used to retain and spread a
sample of liquid which is to be assayed. The deposit comprises a powder,
including the active ingredient(s). The diagnostic form is created via a dry
powder deposition apparatus that electrostatically deposits the powder on the
substrate utilizing an electrostatic chuck and charged powder delivery
15 apparatus.

09898104-070304